Cellactive

Cellular Communication Control System for Strategic Facilities

Unique and Effective – Cellactive

Cellactive is a cutting-edge, selective and remarkably effective cellular inhabitation, monitoring and control system that handles all communication in sensitive areas and across strategic facilities. Installed in dozens of locations, Cellactive provides an overall solution for communication control in critical facilities.

Advanced capabilities include:

- Denial of service (blocking) to blacklisted phones or all phones
- Allowing service to whitelisted phones
- Monitoring and recording target phone calls, Short Message Service (SMS) and phone registrations
- Forwarding voice, SMS and data to a central control system

Elbit Systems™
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Selective Cellular Inhabitation & Monitoring

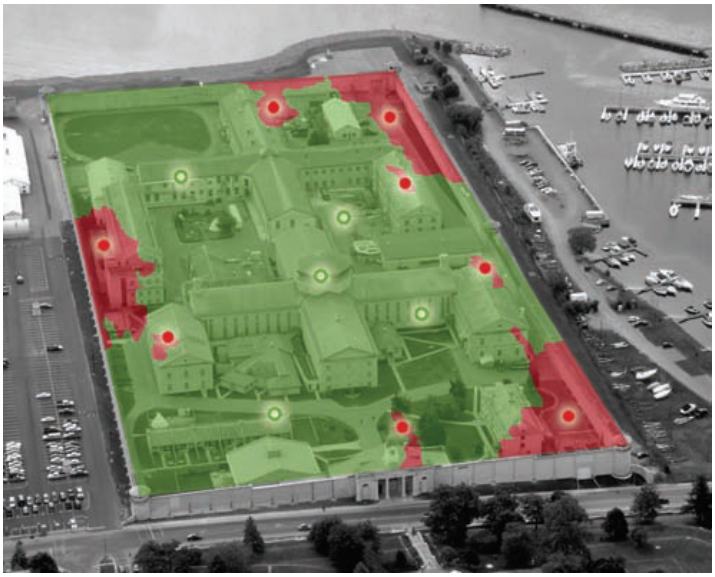
Designed as a true Man-in-the-Middle (MitM) system, all phones within the system's selective coverage area are forced to register to the system and can be captured with automatic extraction of their International Mobile Subscriber Identity (IMSI) and International Mobile Equipment Identity (IMEI), as well as their Mobile Station International Subscriber Directory Number (MSISDN) and handset type. Invisible and undetectable by the user or the service provider the system can scan, identify, map and intercept all cellular users within the facility. Once phones are captured the system can selectively cause denial of service to all subscribers within range or alternatively, allow calls and SMSs, while intercepting them. The system adapts itself to the RF cellular spectrum, which is regularly changed by the commercial service providers for invisibility and integration in the arena. The system is also able to imitate and manipulate targeted devices, including editing SMS messages and calls to targets, as well as physically locating any target, using a sophisticated homing device.

Access Control

Dominating the cellular arena within the facility, Cellactive delivers comprehensive access control utilizing a pre-determined blacklist of unauthorized devices as well as a whitelist of authorized devices.

Coverage Optimization - Special Deployment Process

Elisra has created a unique deployment process that is individually tailored for each facility – delivering precise site planning that ensures maximum coverage accuracy and minimum RF spillage outside the facility. The detailed deployment process includes a site survey, channels analysis and RF coverage analysis, which enables selection of the best locations for system sensors, mapping the entire facility's RF levels and building a special “virtual boundaries” algorithm for system coverage.



Wide Band Jamming – Blocking All Communication within the Facility

The complementary Wide Band Jamming System – covering all communication technologies, including V/UHF, satellite, cellular, digital communication systems, WiFi, Bluetooth, and others – inhibits all traffic using various techniques to control and adjust jamming power and RF spillage outside the facility.

Command & Control – Intelligence & Analysis

All systems within a facility are connected via WAN communication to remote operators' posts at the control center. Cellactive provides full remote control and data collection across the entire facility with all data stored in a central database on the control center’s servers and accessible via a control post or from the local controller. The control center receives the incoming and outgoing cellular calls and SMSs, as well as registrations, call attempts and other important data from each facility. Phones can be located using an exceptionally accurate system embedded in the controller. The system includes a strong analysis tool used for intelligence gathering – including the identification of speakers, keywords, templates, behavior patterns, action and frequency of switching phones on and off, as well as other useful data. These sophisticated analyses can be performed even when telephones or SIM cards have been changed.

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